



pdgfrb^{ihb452/+} (CZRC catalog ID: CZ1400)

Nature of the mutation

Between 691 bp and 706 bp of the wild-type *pdgfrb* coding sequence, GAGCTGGTCTTCTTCT are mutated to TAGAAG in exon 4.

Sense Strand Sequence

gctccgctatctgcaatcacataaaccgagccaagtctgcataaacgcatcagatgattgtttcaatgaacaatggcgttttgtt
ctctcacatgtgttcagCTCCCGAGGCTCTGGATCCCTACATCAACGCCTCCAAAACGGTC
CTAAAGCAGGGCGAGACGCTCAACGTCAACTGCACCGTTCACGGCGT**GGAGCTG**
GTCTTCTTCTCCTGGGATTTCCCAACAAAGACgtgagtgggctggaataaacgctttgtttcattact
ccccatcggagcctcatgagaagagctgaaatgagctcaagatgtgaaccacacctactgtcacgaccagcagcgttttattaaga
gatgcatcagaatagtacgaagtaatacagttgaagtcataagttctatatttctaaacaaaataactcatttctaataactaattacgtt
atctttccatgatgacagctgcagaatattaacttccaagacactagtatttagctcaaag**tgacatttagaggcttaatt**

Uppercase: Exon/coding sequence

Lowercase: intron/noncoding sequence

atcg : Forward/Reverse primer

atcg : Crispr/cas9 target site

Genotyping assay

Primers:

pdgfrb_forward: 5' GCTCCGCTATCTGCGAATCA 3'

pdgfrb_reverse: 5' AATTAAGCCTCTAAATGTCA 3'

PCR program:

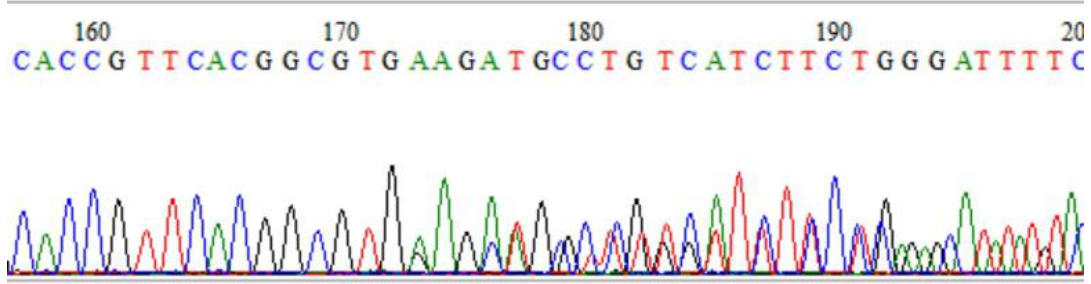
95°C	5min	} 30 Cycles
95°C	30 sec	
55°C	30 sec	
72°C	30 sec	
72°C	8min	
4°C	hold	

Product size: 551 bp





The sequencing results of the CZ1400(+/-):



WT	GGCTCTGGATCCCTACATCAACGCCTCCAAAACGGTCCTAAAGCAGGGCGAGACGCTCAA
CZ1400	GGCTCTGGATCCCTACATCAACGCCTCCAAAACGGTCCTAAAGCAGGGCGAGACGCTCAA *****
WT	CGTCAACTGCACCGTTCACGGCGTGGAGCTGGTCTTCTTCTCCTGGGATTTCCCAACAA
CZ1400	CGTCAACTGCACCGTTCACGGCGTGTAGAAG-----CCTGGGATTTCCCAACAA ***** ** * *****
WT	AGACgtgagtgggctgaaataaacgcttgttttcattacttccccatcggagcctcat
CZ1400	AGACgtgagtgggctgaaataaacgcttgttttcattacttccccatcggagcctcat *****

